

6-9-00

A

Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53 (b))

Attorney Docket No. 7544-PA01

First Inventor or Application Identifier DANIEL LIEBERMAN ZADJMAN

Title REMOVABLE OPTICAL SECURITY FILM PLACED ON PRINTED SURFACES AND/OR PRODUCTS CONTAINING SUCH FILM

Express Mail Label No. EL584704946US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ *Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

5. ☐ Microfiche Computer Program (Appendix)

2. ☒ Specification
(preferred arrangement set forth below)

[Total Pages] 9

6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- Descriptive title of invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claims(s)
- Abstract of the Disclosure

a. ☐ Computer Readable Copy

b. ☐ Paper Copy (identical to computer copy)

c. ☐ Statement verifying identity of above copies

3. ☐ Drawing(s) (35 U.S.C. 113)

[Total Sheets] 1

4. Oath or Declaration

[Total Pages] 2

a. ☒ Newly executed (original or copy)

b. ☐ Copy from a prior application (37 C.F.R. § 1.63 (d))
(for continuation/divisional with Box 16 completed)

i. ☐ DELETION OF INVENTOR(S)
Signed Statement attached deleting inventor(s)
named in the prior application, see 37 C.F.R.
§§ 1.63(d)(2) and 1.33(b)

*NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ACCOMPANYING APPLICATION PARTS

7. ☒ Assignment Papers (cover sheet & document(s))

8. ☐ 37 CFR § 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney

9. ☒ English Translation Document (if applicable)

10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations

11. ☒ Preliminary Amendment

12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

13. ☒ *Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)

14. ☐ Certified copy of Priority Documents(s)
(if foreign priority is claimed)

15. ☐ Other:

16. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment.


☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior Application No: _____ / _____

Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

Name	BROWN, MARTIN, HALLER & McCLAIN, LLP				
Address	1660 UNION STREET				
City	SAN DIEGO, CALIFORNIA 92101-2926				
Country	USA	Telephone	(619) 238-0999	Fax	(619) 238-0062

Name (Print/Type)	NEIL F. MARTIN	Registration No. (Attorney/Agent)	23,088
Signature		Date	June 8, 2000

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27 (c)) — SMALL BUSINESS CONCERN

Docket Number: 7544-PA01

Applicants, Patentees, or Identifiers: DANIEL LIEBERMAN ZADJMAN and RAMON BAUTISTA PEREZ-SALAZAR

Application or Patent No.: Unknown

Filed or Issued: Herewith

Title: REMOVABLE OPTICAL SECURITY FILM PLACED ON PRINTED SURFACES
AND/OR PRODUCTS CONTAINING SUCH FILM

I hereby state that I am:

☐ the owner of the small business concern identified below:

☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN HOLOWEBS, LLC

ADDRESS OF SMALL BUSINESS CONCERN 9475 Chesapeake Drive, Suite A, San Diego, California 92123

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year, and (2) concerns are affiliates of each when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

☒ the specification filed herewith with title as listed above.

☐ the application identified above.

☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization having any rights in the invention is listed below:

☒ No such person, concern, or organization exists.

☐ Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28 (b)).

NAME OF PERSON SIGNING DANIEL LIEBERMAN ZADJMAN

TITLE OF PERSON IF OTHER THAN OWNER President

ADDRESS OF PERSON SIGNING 9475 Chesapeake Drive, Suite A, San Diego, California 92123

SIGNATURE  DATE 4/10/00

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of)
DANIEL LIEBERMAN ZADJMAN AND) For: REMOVABLE OPTICAL SECURITY
RAMON BAUTISTA PEREZ-SALAZAR) FILM PLACED ON PRINTED
Serial No.: Unknown) SURFACES AND/OR PRODUCTS
Filed: Herewith) CONTAINING SUCH FILM
)
) Group Art Unit: Unknown

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Attention: Examiner

Dear Sir:

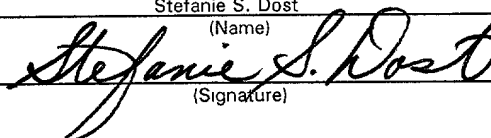
Preliminary to the first examination of this application, please enter the following
amendments:

"Express Mail" Mailing Label No. EL584704946US

Date of Deposit June 8, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Stefanie S. Dost
(Name)


(Signature)

IN THE SPECIFICATION

On page 3, line 14, prior to "As used herein" at the beginning of the paragraph, please insert --As used herein, the term "film" means any thin transparent or opaque coating which is adhered to the substrate.--; and

line 18, please replace the sentence "This type of optical element generates optical reliefs." with --These types of optical elements generate surface reliefs.--.

On page 5, line 17, please replace "lacquer" with --wax--.

IN THE ABSTRACT

On page 9, line 1, please replace "SUMMARY" with --ABSTRACT--.

REMARKS

The changes to the specification have been made in order to more clearly define the invention as claimed. The change to the Abstract portion of the application has been made in order to reflect the proper U.S. patent application heading format.

Respectfully submitted,

Dated: June 8, 2000

By: 

Neil F. Martin
Attorney for Applicant
Registration No. 23,088

BROWN, MARTIN, HALLER & McCLAIN
1660 Union Street
San Diego, California 92101-2926

Telephone: (619) 238-0999
Facsimile: (619) 238-0062

Docket No. 7544-PA01



Affidavit of Accuracy

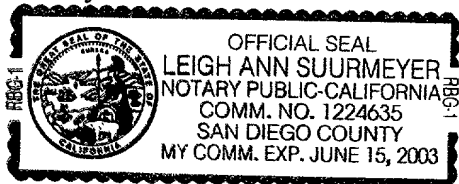
I, Aron Davidson, certify that to the best of my knowledge and belief, the following is a true and accurate translation into **English from Spanish of the attached Mexican Patent Application 99227.**

ATLANTA
BOSTON
BUENOS AIRES
CHICAGO
DALLAS
LONDON
LOS ANGELES
MIAMI
NEW YORK
PARIS
PHILADELPHIA
SAN DIEGO
SAN FRANCISCO
SAO PAULO
WASHINGTON, DC

Aron Davidson
TransPerfect Translations, Inc.

Sworn to before me on this, the 7th day of February, 2000.

Signature
Notary Public



Stamp
Notary Public

REMOVABLE OPTICAL SECURITY FILM PLACED ON PRINTED SURFACES AND/OR PRODUCTS CONTAINING SUCH FILM

FIELD OF THE INVENTION

This invention concerns the protection of a print and/or object by applying a removable film to a surface. More specifically, this invention concerns a removable optical security film and its application, to totally or partially hide confidential information previously printed on a surface and to authenticate said information.

BACKGROUND OF THE INVENTION

Currently, there exists in the market a series of printed documents such as calling cards, instant lottery tickets, promotions, licenses, event tickets and similar items, which contain information, activation codes, prizes, etc. hidden by means of a removable material. The purpose of the removable material is to ensure the confidentiality of the code or message printed under the material before it is acquired by a final consumer. However, a problem faced by this type of application of removable material on products is the possibility that, after the removable material is removed from the surface and the hidden information is used, the document is then discarded by the user. However, the discarded document, which no longer has any commercial value, can be picked up and reused illegally, by reapplying the removable material in order to sell it again; furthermore, the document may be printed by any conventional printing method to imitate the original, imitating both the print and the film.

To date, there is no security measure to easily show or identify the reprocessing or duplication of documents already used, i.e. the authenticity of the documents, so users who purchase these reprocessed documents suffer an economic loss, and the manufacturers or issuers suffer damage to their image, in addition to economic losses.

The current technique involves the application of a removable material to a smooth surface by conventional printing methods such as flexography, serigraphy, offset, rotogravure, hot stamping, etc. However, said removable film does not have security measures or elements to identify reprocessed or duplicated documents, so any printer may easily reapply the film and/or copy the print with the film by conventional printing methods.

Consequently, there is still a need to provide a security measure or removable optical film identifying undue use and reprocessing or duplication, which security measure has a correct balance between adhesion strength and removal strength (friction) of the security measure, in order to show the information it hides.

OBJECTIVES OF THE INVENTION

Taking into account the shortcomings of the above technique, one of this invention's objectives is to provide an optical security film that is easy to apply but highly efficient for the authentication and validation of documents containing confidential information.

Another objective of this invention is to provide an optical security film that may be applied by any traditional or non-traditional method.

Yet another objective of this invention is to provide an optical security film with optical characteristics that cannot be duplicated by conventional printing methods.

One more objective of this invention is to provide an optical security film that has the correct balance between adhesion strength and removal strength.

The above objectives, as well as other objectives and advantages of this invention, are achieved by providing a removable optical security film to totally or partially cover a smooth surface, in order to authenticate and validate the confidential information previously printed on said surface. In addition to the optical characteristics, this invention's optical security film also has a correct balance between adhesion strength and removal strength (friction), which gives it special additional characteristics as a security element preventing the reprocessing of documents already used. Said optical film may include any type of optical elements that give consumers the security that the print and/or object has not been reused or duplicated, and therefore that the hidden information has not been seen or used by anybody else, thus assuring its confidentiality.

An additional characteristic of the removable optical security film is that it can be opaque or transparent, i.e. the purpose of the opaque optical film will be to hide the information, while the transparent optical film will validate the visible information since, by removing the film, the optical effect validating the information underneath will appear.

Finally, since the optical security film can be partially removed, this allows the printed information, together with the permanent parts of the film (after the film is removed), to give us the correct code to validate the printed information.

DETAILED DESCRIPTION OF THE INVENTION

This invention involves an optical security film that can be applied by any of the printing methods known in the field. The optical security film can be applied by any method known to printing experts, such as flexography, serigraphy, offset, rotogravure, labeling, hot stamping, etc. However, this invention's removable film has optical characteristics that provide a security element to the document or surface to which it is applied. Furthermore, said removable film has specific characteristics that prevent the reuse or reprocessing of the substrate to which it is initially applied, giving the final user security that the information contained in the document has been kept confidential.

This invention's optical film may be totally or partially removed, showing that the print and/or object have already been used, thus offering an element by which the user can easily and fully identify the print and/or object as original.

As used herein, the term "optical film" refers to the microscopic engraving of any optical element on a film. The optical elements that may be engraved microscopically on a film can be, without limitation thereto, holograms, diffraction gradients, optically variable diffraction elements (OVD), dot matrix elements (at any resolution), computer-generated holograms, stereograms, hexelgrams, kinegrams, etc. This type of optical element generates optical reliefs.

It must be understood that the incorporation of the optical element or elements is not limited to the aforementioned interference patterns; it may be extrapolated to give the optical film optical elements generated in the volume of the film by the well-known system used to generate holograms and/or optical reflection elements.

The type of information protected with this invention's removable optical security film can be, for example, activation codes, prizes, codes, logos, photographs, numbers, etc. This confidential information is contained in printed documents such as calling cards, instant lottery tickets, promotions, licenses, collectible cards, event tickets and similar documents.

Generally speaking, this invention's removable optical film includes both the temporary application of a removable material with adhesive characteristics on the substrate to which it is applied and the engraving of optical elements on said removable material. In this sense, the correct balance will be achieved if the removable material and the optical elements resist the friction forces generated, for example, during packing, distribution, exhibition, etc., when handling the product to which it is applied; at the same time, it can easily be removed in order to see the information underneath the optical security film. Thus, excessive adherence strength of the removable material

will cause the destruction of the base material (print) when trying to remove the film which contains the security measure to prevent reading, and a lack of adherence strength will make the removable material peel off when the product is handled, thus making the product unusable, because the hidden information would be exposed.

An additional characteristic of the removable optical security film is that it can be either opaque or transparent. In an embodiment of this invention, the opaque optical film has the purpose of hiding all the information found under the security film, while a transparent optical film will validate the visible information when, after removing the film, the optical effect validating the information underneath finally appears. In other words, the transparent optical security film will validate the information when it is under a transparent removable film with the same refraction index. By removing the transparent removable film, the optical security effect engraved underneath, on the other fixed, transparent film, will be activated, validating the information printed on the document or object.

EXAMPLES

The following are illustrative examples, without limitation thereto, of some of the methods used to apply this invention's removable optical security film.

1. HOT STAMPING METHOD

This method requires the substrate to which this invention's film will be applied to include a film which prevents the hot stamping from remaining permanently adhered to the substrate, making it adhere temporarily. For this purpose, as one example among many, the substrate may have a film of some type of lacquer containing, for example, silicone, which will prevent the permanent adhesion of the hot stamping. It is also necessary for the hot stamping to have adequate properties to adhere temporarily to said film.

Printing Station

The removable film may be applied to the substrate by flexography. This printing method by flexography allows a type of lacquer containing silicone (or another stripping material) to be impregnated by using anilox rollers on the substrate, precisely on the required area. Silicones or stripping materials are chemical products which, due to their physicochemical properties, prevent any substance or material from sticking to them. In this printing station, the lacquer is applied to the

substrate, and then the object goes to a drying station, where the lacquer is dried on the substrate.

Anilox rollers have small cavities in which the lacquer is stored and from which it is transferred to a photo-polymeric stencil plate, which has the drawing of the area on which the application will be made. Thus, the stencil plate with said relief area takes ink from the anilox roller and transfers it to the substrate. After the lacquer is transferred to the substrate, the substrate is immediately moved to a drying station. These lacquers may be solvent-based, water-based or with ultraviolet curing.

Hot Stamping Station

At this station, the substrate is placed so that, by application of heat and pressure, an optical hot-stamping which has been engraved in this material is transferred. A key characteristic is that said optical hot-stamping must be transferred easily to the substrate and remain temporarily adhered to it. For this purpose, the proper formulation must be sought both in adhesives and in stripping agents, i.e. the correct balance between adhesion strength and removal strength, to cause the material to always work under the same pressure and temperature conditions.

For example, an optical hot-stamping under this invention may consist of a polyester "carrier" to which, first of all, stripping lacquer is applied to achieve the transfer. Then, over the first lacquer or wax, a second lacquer, which is optically engraved, is applied; on top of it, a metal coating is applied to give "optical effect" reflectiveness. Over the metal coating, an adhesive is applied, activated by heat, in order to achieve two things: to allow the structure laminated in this way to be removed from the polyester and for it to temporarily adhere to the substrate, thus forming this invention's removable optical security film.

After the application of this optical film, and due to its characteristics described above, it can be easily removed by scratching it, for example with a coin, etc. in the area where the security film was placed. This works in exactly the same way as scratching instant lottery tickets.

2. ULTRAVIOLET METHOD

In this method, the substrate to which this invention's optical security film will be applied must also have a film that prevents the permanent adhesion of the removable film. For this purpose, a first film can be applied, such as X-type UV (ultraviolet) lacquer. This type of lacquer is formulated so that, after being cured, it provides increased resistance to friction. In addition, the chemical composition of said lacquer must be selected so as not to allow the permanent adhesion of the other type-Y lacquer cured over it.

The type-Y lacquer is designed so that, after being cured, it is easy to break by friction, so that it can be scratched without problems.

The application methodology basically consists of printing, engraving and curing.

Printing, Engraving and Curing Station

The removable film can be applied to the substrate by flexography. This flexographic printing method, which uses anilox rollers, allows the substrate to be impregnated precisely in the area where the application of a type-X UV lacquer is desired. Anilox rollers have small cavities in which the lacquer is stored and from which it is transferred to a photo-polymeric stencil plate, which has the drawing of the area on which the application will be made. Thus, the stencil plate with said relief area takes ink from the anilox roller and transfers it to the substrate. After the lacquer is transferred to the substrate, the substrate is immediately moved to a curing station with ultraviolet rays.

After the type-X lacquer is cured over the substrate, the substrate with the first film is transferred to a station where a second UV lacquer is applied, this being a type-Y lacquer. At this station, the type-Y lacquer is placed directly over the first UV lacquer, i.e. the type-X lacquer. After the application of the second lacquer, the substrate carrying both lacquers is moved to a semi-curing station, and from there it is transferred to an engraving station, where an engraving roller has the optical image that will be engraved over the semi-cured type-Y UV lacquer. After the optical image is engraved over the semi-cured lacquer on the substrate which contains the confidential information, it is sent to a final UV curing station in order to permanently affix the optical image on this type-Y lacquer.

Thus, by means of a film of type-Y lacquer over a film of type-X lacquer, it is very simple to scratch the film formed by the type-Y lacquer, due to its adhesive characteristics, which are lower than those of the type-X film; the latter, once it is cured, is highly resistant. The removable coating consisting of the type-Y lacquer (the coating with the optical image engraved) may be any color, including transparent. It is preferable to use black to be able to see the optical image more easily. This can also be done with a transparent lacquer, where the optical security effect is engraved in the type-X lacquer. In this type of method, it is not necessary to metallize the film which contains the engraved optical security element.

3. COLD TRANSFER METHOD

Under this method, the substrate on which this invention's removable optical film will be

applied must include a lacquer film with, for example, silicone or UV (ultraviolet) lacquer, which prevents the removable film applied over it from remaining permanently adhered.

Printing Station

The removable film may be applied to the substrate by flexography. This printing method by flexography allows a type of lacquer containing, for example, silicone or another stripping material, or a type of ultraviolet lacquer, to be impregnated using anilox rollers on the substrate, precisely on the required area. At this printing station, the lacquer is applied to the substrate, and then the object goes to a drying or curing station (depending on the type of lacquer used), where the lacquer is dried or cured on the substrate, and then it is sent to a station where adhesive is applied. Anilox rollers have small cavities in which lacquer or ink is stored and from which it is transferred to a photo-polymeric stencil plate, which has the drawing of the area in which the application will be made. Thus, the stencil plate with said relief area takes ink from the anilox roller and transfers it to the substrate. After the lacquer is transferred to the substrate, the substrate is immediately moved to a drying or curing station. These lacquers may be solvent-based, water-based or with ultraviolet curing.

Adhesive Application Station

After the lacquer or ink coating is applied to the substrate, the substrate with said coating is transferred to a station where a special type of adhesive is applied. The adhesive used is adhered to the lacquer non-permanently but with sufficient adhering strength that, when it goes to the following station, the transfer material containing the optical image is transferred to a cold roller by applying pressure to the substrate and is fixed on it non-permanently, thanks to the adhesive.

Although special forms of embodiment of this invention have been illustrated and described, specialists in the field will clearly see that several other changes and modifications can be made without changing the spirit and the scope of the invention. Consequently, the purpose of the enclosed claims is to protect any change or modification made within the scope of this invention.

0559950-068800

CLAIMS

1. Removable optical security film, of a type including a substrate which contains printed information and a first film which avoids permanent adhesion of the optical security film to the substrate, characterized both by the fact that it includes both the application of a removable material which temporarily adheres to the substrate to which it is applied, and by the engraving of optical elements on said removable material; in addition, the film may be eliminated if the optical security film has stripping agents which prevent it from being permanently adhered.

2. The removable optical security film under claim 1, also characterized by the fact that the removable material and the optical elements have the correct balance, which consists of resisting the frictional forces generated during packing, distribution, exhibition, when handling the product on which it is applied; at the same time, is easily removable to see the information contained under the optical security film.

3. The removable optical security film under claim 1, also characterized by the fact that the confidential information protected by said optical film is selected from a group consisting of activation codes, prizes, codes, photographs, logos and/or numbers.

4. The removable optical security film under claim 1 or 2, also characterized by the fact that said security measure has a correct balance between the adhesion force and the removal force (friction) of the security measure to show the information it hides.

5. The removable optical security film under claim 1, also characterized by the fact that the optical elements are selected from a group consisting of holograms, diffraction gradients, optically variable diffraction elements (OVD), dot matrix elements (at any resolution), computer-generated holograms, stereograms, hexelgrams and/or kinegrams.

0558950-060000

SUMMARY

This invention describes a removable optical security film of a type which includes a substrate with printed information and a first film which avoids the permanent adhesion of the optical security film to the substrate, whereby said optical film includes the temporary application of a removable material with adhesive characteristics on the substrate on which it is applied, and the engraving of optical elements on said removable material. In addition to authenticating the information printed underneath and avoiding the reprocessing of objects and prints, the optical security film also prevents the duplication of these objects and prints by conventional methods. In another embodiment of this invention, when the optical security film acts partially, the print and the non-removed parts of the film are the elements that authenticate the corresponding information.

VOLUNTARY AMENDMENT [illegible]

**File No. 99227
of Patent (Utility Model)**

Department of Form Examination.

GENERAL DIRECTOR OF THE MEXICAN INSTITUTE OF INDUSTRIAL PROPERTY.

I, **ALEJANDRO FRANCISCO DE LA CONCHA ESTRADA**, Representative of **RAMON BAUTISTA PÉREZ-SALAZAR** and **DANIEL LIEBERMAN ZADJMAN**, a capacity which I have duly proven, indicating as domicile to hear and receive notifications **AV. INSURGENTES SUR No. 1991, TOWER B, OFFICE 1200, COL. GUADALUPE [illegible], ZIP CODE 01020, MEXICO, D.F.**, and authorizing Messrs. Guillermo Tellez Hernández and Norberto Guillermo Pérez Nava to hear and receive them on my behalf, respectfully appear before you and state:

That I hereby file a new detailed description, claims and summary, in lieu of those originally submitted, in order to make certain corrections for due clarification of the invention, but without altering the scope of the invention in any manner.

My client has deemed it necessary to make all the corrections listed below:

Page 1 of the chapter describing the application in question, line 2, reads "PRINTED SURFACES AND PRODUCTS," but it must read "PRINTED SURFACES AND/OR PRODUCTS;"

On the same page 1, line 25, the words "or in others" were deleted;

Page 2, line 1, reads "to the original, producing in a counterfeit manner," but it must read "the original, imitating;"

Page 2, line 3, reads "the reprocessing of documents already used or their duplication," but it must read "the processing [sic] or duplication of documents already used;"

On page 2, line 5, the words "or duplicates" were deleted;

On page 2, line 13, "(counterfeit)" was deleted;

Page 2, line 17 reads "including duplication," but it must read "or duplication;"

Page 3, lines 6 and 7, reads "a hologram that has a correct," but it must read "an optical security film that has;"

On page 3, line 15, the words "as duplication of documents" were deleted;

On page 3, line 23, the words "and that" [sic: "since"] were inserted between the words "visible information" and "by removing;" furthermore, the word "appears" was changed to "will appear;"

On page 3, line 26, the word "us" was inserted between the words "this" and "allows" [not applicable in English translation];

Page 4, line 1, reads "supply," but it must read "give us;"

Page 4, line 10, reads "of labeling," but it must read "labeling;"

On page 5, line 9, the word "photographs" was inserted; and in line 11, the words "collectible cards" were inserted;

Page 6 of the chapter describing the application in question, in lines 5 through 9, reads "In other words, the transparent optical security film will validate the information when it has the same refraction index as the film.....see the print underneath," but it must read "In other words, the transparent optical security film will validate the information when it is under a transparent removable film with the same refraction index. By removing the transparent removable film, the optical security effect engraved underneath, on the other fixed, transparent film, will be activated, validating the information printed on the document or object." This correction is made to duly clarify the effect of validation of the information protected by this invention's film.

Page 7, line 23, reads "stripping" but it must read "stripping" [not applicable in English translation];

Page 9, lines 25 and 26, reads "color. It is preferable," but it must read "color, including transparent. It is preferable;"

On page 10, lines 1 and 2, the phrase "In this type of method.....engraving security" was changed to the phrase "This can also be done with a transparent lacquer, where the optical security effect.....the engraved optical security element;"

On page 12 of the claims chapter of the application in question, in line 8, claim 1, the phrase "in addition, the film may be eliminated if the optical security film has stripping agents which prevent it from being permanently adhered" was incorporated;

On page 14 of the summary of the invention under the application in question, in lines 11 through 14, the language was corrected to make the embodiment of this invention clearer and easier to understand.

095950-095950

In accordance with the above, by a careful revision of the amendments, it can be easily determined that the scope of the invention has not been modified, since the matter claimed today in this application for utility model under the file mentioned in the heading is duly sustained in the descriptive memo originally filed.

I must stress that the amendment made does not modify the scope of the invention, but makes it clearer and easier to understand than the version originally filed.

I submit the receipt for the fees paid for this voluntary replacement.

In light of the above,
I respectfully ask THE DIRECTOR:

FIRST.- To deem that I appeared in due time and form, in the terms of this brief;

SECOND.- To order that the new pages be deemed as replacing the previous ones, to be examined in due time by the Technical Department; and

THIRD.- To give instruction for the continuation of the processing of this application.

I make the necessary reservations.

MEXICO, D.F., September 22, 1999.

By RAMON BAUTISTA PÉREZ-SALAZAR and
DANIEL LIEBERMAN ZADJMAN

[signature]

REPRESENTATIVE

Atty. Alejandro F. De la Concha Estrada

ENCLOSURES:

- New Application brief, including the correct Title, in triplicate.
- New detailed description, in triplicate.
- New claims chapter, in triplicate.
- New summary of the invention, in triplicate.
- Receipt for Payment of Fees.

ACE*

N/C: 11/98MU

[illegible]

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION	Attorney Docket	7544-PA01	
	First Named Inventor	DANIEL LIEBERMAN ZADJMAN	
	COMPLETE IF KNOWN		
	Application Number	Unknown	
	Filing Date	Herewith	
	Group Art Unit		
	Examiner Name		

☒ Declaration Submitted with Initial Filing ☐ Declaration Submitted after Initial Filing

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

REMOVABLE OPTICAL SECURITY FILM PLACED ON PRINTED SURFACES AND/OR PRODUCTS CONTAINING SUCH FILM

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable.)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Numbers	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
99227	Mexico	08/24/1999	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Patent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Registered practitioner(s) name/registration number listed below:

Name	Registration Number	Name	Registration Number
NEIL F. MARTIN JOHN L. HALLER	23,088 27,795	JAMES W. McCLAIN KATHERINE PROCTOR ELEANOR M. MUSICK	24,536 31,468 35,623

Direct all correspondence to:

Attorney Name	NEIL F. MARTIN				
Address	BROWN, MARTIN, HALLER & McCLAIN				
Address	1660 UNION STREET				
City	SAN DIEGO	State	CALIFORNIA	ZIP	92101-2926
Country	USA	Telephone	(619) 238-0999	Fax	(619) 238-0062

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])		Last Name			
DANIEL		LIEBERMAN ZADJMAN			
Inventor's Signature	Date April 10, 2000				
Residence: City	Mexico	State	Country Mexico	Citizenship	Mexican
Post Office Address	Pino 343, Local 42				
Post Office Address	Col. Santa Maria La Ribera				
City	Mexico, D.F.	State	Zip	C.P. 06400	Country Mexico

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])		Last Name			
RAMON		BAUTISTA PEREZ-SALAZAR			
Inventor's Signature	Date April 10, 2000				
Residence: City	Mexico	State	Country Mexico	Citizenship	Mexican
Post Office Address	Pino 343, Local 42				
Post Office Address	Col. Santa Maria La Ribera				
City	Mexico, D.F.	State	Zip	C.P. 06400	Country Mexico

☐ Additional Inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.